AMENDED CLAIMS

[Received by the International Bureau on 16 May 2005 (16.05.2005) :
original claim 1, 2, 3, 8, 9, 12, 13, 17, 18 and 23 amended,
remaining claims unchanged (7 pages)]
+ STATEMENT

What is claimed is:

1. A method for compressing an XML data, comprising the steps of:

a. receiving the XML data;

b. encoding the XML data;

c. packetizing the encoded XML data;

d. inserting an indicating data between the block-packed XML data to obtain a compressed XML data, wherein the indicating data is used to identify specific data.

2. The method according to claim 1, wherein said indicating data is located in a null data block.

3. The method according to claim 2, wherein said indicating data is located in the block-head of the null data block.

4. A method for compressing an XML data, including the steps of:

a. receiving the XML data;

b. inserting an indicating data into the XML data, wherein the indicating data is used to identify an specific data;

c. compressing the XML data which contains the indicating data to obtain the compressed XML data.

5. The method according to claim 4, wherein step b includes the steps of:

analyzing said XML data to obtain a group of useless data as indicating data marks;

inserting the corresponding indicating data behind a specific number of the indicating data marks;

replacing remaining indicating data marks with another group of useless data.

6. The method according to claim 4, wherein step b including the steps of:

analyzing said XML data to obtain a group of useless data;

transforming a specific number of said useless data to an indicating data packet;

putting said indicating data into said indicating data packet.

7. The method according to claim 5 or 6, wherein said useless data is one of the following data: tabulation mark, blank mark and enter mark.

8. A method for decompressing an compressed XML data, comprising the steps of:

a. receiving the compressed XML data which contain an indicating data;

b. decompressing the compressed XML data, wherein this step includes step (i): obtaining said indicating data;

c. discarding the corresponding decompressed XML data according to the indicating data.

9. The method according to claim 8, wherein said indicating data is located in a null data block.

10. The decompressing method according to claim 8, wherein step (i) of step b comprises the steps of:

block-head-decoding said compressed XML data to find out a null data block;

obtaining the indicating data from the block-head of the null data block.

11. The decompressing method according to claim 8, further comprising the step of:

revising the content of the indicating data according to a specific condition, wherein step c is carried out according to the content of the revised indicating data.

12. The decompressing method according to claim 8, wherein said discarded XML data corresponds to specific data block in said compressed XML data.

13. A method for decompressing a compressed XML data, comprising the steps of:

a. decompressing the compressed XML data to obtain the decompressed XML data;

b. obtaining an indicating data from said decompressed XML data, wherein the indicating data is used to identify specific data;

c. discarding the corresponding decompressed XML data according to the indicating data.

14. The decompressing method according to claim 13, wherein said indicating data is inserted into the original XML data.

15. The decompressing method according to claim 13, wherein step b comprising the steps of:

finding out an indicating data mark in said XML data;

obtaining the indicating data according to the indicating data mark.

16. The decompressing method according to claim 13, further comprising the steps of:

revising the content of the indicating data according to a specific condition, wherein step c is carried out according to the revised content of the indicating data.

17.An apparatus for compressing an XML data, comprising:

receiving means for receiving the XML data;

encoding means for encoding the XML data;

packetizing means for packetizing the encoded XML data;

indicating data block inserting means for inserting the indicating data to between the block-packed XML data to obtain the compressed XML data, wherein the indicating data is used to identify the particular data.

18.The apparatus according to claim 17, wherein said indicating data is located in a null data block.

19. An apparatus for compressing an XML data, comprising:

receiving means for receiving the XML data;

indicating data packet inserting means for inserting the indicating data into the XML data, wherein the indicating data is used to identify the specific data;

compressing means for compressing the XML data in which the indicating data is inserted to obtain the compressed XML data.

20. The apparatus according to claim 19, wherein said indicating data pocket inserting means comprises:

positioning means for analyzing said XML data to obtain a group of useless data as the indicating data marks;

data inserting means for inserting the corresponding indicating data behind a specific number of indicating data marks, and replacing the remaining indicating data marks with another group of useless data.

21. The apparatus according to claim 20, wherein said useless data is one of the following data: tabulation mark, blank mark and enter mark.

22. An apparatus for decompressing an compressed XML data, comprising:

receiving means for receiving the compressed XML data, which contains an indicating data;

data processing means for decompressing the compressed XML data, and obtaining said indicating data;

discarding means for discarding the corresponding compressed XML data according to the indicating data.

23. The apparatus according to claim 22, wherein said indicating data is located in a null data block.

24. The apparatus according to claim 22, wherein said data processing means includes:

null data block detecting means for block-head-decoding the compressed XML data to find out a null data block;

indicating data obtaining means for obtaining the indicating data from the block-head of the null data block.

25. The apparatus according to claim 22, further comprising an analyzer for revising the content of the indicating data according to a specific condition, wherein said discarding means operates according to the revised content of the indicating data.

26. The apparatus according to claim 24, wherein said indicating data is inserted into an original XML data.

27. The apparatus according to claim 24, wherein said indicating data is obtained from the decompressed XML data.

28. The apparatus according to claim 24, wherein said data processing means includes a detecting result withdrawing means for finding out a group of indicating data marks from the decompressed XML data, and obtaining the indicating data according to the indicating data mark.

Statement under article 19(1) and Rule 46.4

According to Article 19 and Rule 46, we amend the claims 1,2,3,8,9,12,13,1718,23of the international patent application PCT/IB2004/052842, and use the amended claims to replace the original claims 1,2,3,8,9,12,13,1718,23. Claims 1,2,3,8,9,12,13,1718,23 is replaced by amended claims bearing the same numbers. When we correct the translation errors of the original claims, we did not exceed the original essential meaning of the international patent application.

According to the comparison form and the replace sheet, we amend the claims as followings:

1. "locates" in the claims 2,3,9,18,23 is replaced by "is located".
2. "dada" in the claim 8 is replaced by "data".
3. "wherein this step includes: obtaining said indicating dada in step (i):" in the claim 8 is replaced by "wherein this step includes step (i): obtaining said indicating data".
4. "block-packing in claims 1, 17 is replaced by "packetizing".
5. "a specific data" in claim 1, 12,13 is replaced by "specific data".